

## Message Text

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ORIGIN OES-05

INFO OCT-01 EA-09 ISO-00 ERDA-07 FEA-01 ACDA-10 CIAE-00

INR-07 IO-11 L-03 NSAE-00 NSC-05 EB-07 NRC-07 DODE-00

SSO-00 NSCE-00 INRE-00 SS-15 DLOS-04 SAL-01 /093 R

DRAFTED BY OES/NET/IM:DHOYLE

APPROVED BY OES/NET/IM:DHOYLE

ERDA - M.MCDONOUGH

EA/J - D.SMITH

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FM SECSTATE WASHDC

TO AMEMBASSY TOKYO IMMEDIATE

UNCLAS STATE 049685

E.O. 11652: NA

TAGS: TECH, JA

SUBJECT: POSSIBLE COOPERATION WITH JAPAN ON WASTE  
MANAGEMENT

PLS PASS TO BLOOM AND HENoch

1. IN ANTICIPATION BARANOWSKI VISIT TO TOKYO BEGINNING  
MARCH 7, WE ARE TRANSMITTING, ON AD REFERENDUM BASIS,  
TECHNICAL SCOPE OF A POSSIBLE EXCHANGE ARRANGEMENT WITH  
JAPAN ON WASTE MANAGEMENT. REQUEST YOU APPROACH APPRO-  
PRIATE JAPANESE AUTHORITIES AND PROVIDE TEXT FOR THEIR  
REVIEW PRIOR BARANOWSKI VISIT AS BASIS FOR DISCUSSION AT  
TIME OF VISIT.

2. TEXT OF TECHNICAL SCOPE FOLLOWS:

A. THE AREAS OF COOPERATION IN THE FIELD OF RADIOACTIVE  
WASTE MANAGEMENT COVERED BY THIS AGREEMENT MAY INCLUDE:

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I. STORAGE AND DISPOSAL OF RADIOACTIVE WASTES

A. INTERIM STORAGE PROCEDURES FOR HIGH-LEVEL LIQUID WASTE FROM FUEL REPROCESSING.

B. ENGINEERED STORAGE OF SOLIDIFIED WASTES.

C. DISPOSAL TECHNIQUES SUCH AS LAND BURIAL AND HYDROFRACTURING.

D. INVESTIGATIONS FOR TERMINAL STORAGE IN GEOLOGIC FORMATIONS OF MUTUAL INTEREST.

E. EVALUATION OF WASTE FORM CHARACTERISTICS FOR VARIOUS MODES FOR STORAGE AND DISPOSAL.

II. TREATMENT OF RADIOACTIVE WASTES

A. IMMOBILIZATION AND PACKAGING OF HIGH-LEVEL RADIOACTIVE WASTE FROM THE REPROCESSING OF NUCLEAR FUEL ELEMENTS.

B. HANDLING AND IMMOBILIZATION TREATMENT OF CONCENTRATED RESIDUES FROM INCINERATION, VOLUME REDUCTION AND LIQUID WASTE TREATMENT OPERATIONS.

C. COLLECTION AND IMMOBILIZATION TREATMENT OF GASEOUS WASTE PRODUCTS INCLUDING RESEARCH AND DEVELOPMENT FOR TRAPPING, SEPARATING AND STORING KRYPTON-85, TRITIUM AND IODINE-129.

D. DEVELOPMENT OF PACKAGING, HANDLING AND TRANSPORT SYSTEMS, AND RESEARCH ON THE FEASIBILITY OF STANDARDIZING DESIGNS AND COMPONENTS WHERE POSSIBLE.

E. DEVELOPMENT OF METHODS FOR SEPARATING WASTE CONSTITUENTS INTO LONG AND SHORT HALF LIFE COMPONENTS TO INCREASE THE NUMBER OF ALTERNATIVE METHODS FOR DISPOSAL AVAILABLE.

F. PREPARATION AND EXCHANGE OF FEASIBILITY  
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STUDIES DIRECTED TOWARD A COOPERATIVE PROGRAM TO DEVELOP NUCLEAR DATA AND OTHER AREAS OF TECHNOLOGY PERTINENT TO ELIMINATING LONG-LIVED ISOTOPIC CONSTITUENTS, E.G., BY TRANSMUTATION.

III. DECONTAMINATION OF EQUIPMENT, FACILITIES OR LAND AND THE TREATMENT AND DISPOSITION OF WASTES THEREFROM.

IV. DISPOSAL OF RADIOACTIVE WASTES WITHIN THE SEABED.

- - A. IDENTIFICATION AND EXPLORATION OF SPECIFIC SEABED AREAS FOR THE DETAILED ANALYSIS OF BIOLOGIC, GEOLOGIC AND OCEANOGRAPHIC ENVIRONMENTS.

B. IDENTIFICATION OF NECESSARY ACTIONS AND MUTUAL SUPPORT REQUIRED IN ADDRESSING LEGAL PRECEDENTS AND CONSTRAINTS THAT COULD RESTRICT THE USE OF THE SEABED AS A TERMINAL STORAGE LOCATION FOR NUCLEAR WASTE.

C. CARRYING OUT THE GENERAL SCIENTIFIC AND OCEANOGRAPHIC INVESTIGATIONS NECESSARY TO DETERMINE THE OVERALL FEASIBILITY OF TERMINAL STORAGE WITHIN THE SEABED.

D. JOINT SPONSORSHIP OF PROGRAMS FOR DEVELOPMENT AND TESTING OF ENGINEERING SYSTEMS IN SUPPORT OF PACKAGED RADIOACTIVE WASTE EMPLACEMENT TECHNOLOGY WITHIN THE SEABED.

E. PREPARATION OF ENVIRONMENTAL IMPACT ASSESSMENTS IN SUPPORT OF PROGRAMS TO GAIN PUBLIC ACCEPTANCE OF TERMINAL STORAGE WITHIN THE SEABED.

OTHER AREAS OF COOPERATION MAY BE ADDED BY MUTUAL AGREEMENT.

B. COOPERATION UNDER THIS AGREEMENT MAY INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING FORMS:

1. EXCHANGE OF SCIENTISTS, ENGINEERS, AND OTHER SPECIALISTS FOR PARTICIPATION IN AGREED RESEARCH, DEVELOPMENT, ANALYSIS, DESIGN AND EXPERIMENTAL ACTIVITIES CONDUCTED IN SCIENTIFIC CENTERS, LABORATORIES, ENGINEERING UNCLASSIFIED

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OFFICES AND REACTOR FACILITIES OF EACH OF THE PARTIES OR ITS CONTRACTORS FOR AGREED PERIODS.

2. EXCHANGE OF SAMPLES, MATERIALS, INSTRUMENTS, AND COMPONENTS FOR TESTING.

3. EXCHANGE OF SCIENTIFIC AND TECHNICAL INFORMATION, AND RESULTS AND METHODS OF RESEARCH AND DEVELOPMENT.

4. ORGANIZATION OR SEMINARS AND OTHER MEETINGS ON AGREED TOPICS COVERING BASIC PROBLEMS OF RESEARCH AND DEVELOPMENT IN THE AREAS ENUMERATED IN ARTICLE 2, IN A MANNER AGREED TO BE THE JOINT COMMITTEE

5. SHORT VISITS BY SPECIALIST TEAMS OR INDIVIDUALS

TO THE LMFBR FACILITIES OF THE OTHER PARTY.

6. JOINT UNDERTAKINGS IN THE FORM OF EXPERIEMTNS,  
TESTS, DESIGN ANALYSIS, OR SUCH OTHER TECHNICAL COLLABORA-  
TIVE ACTIVITY AS NECESSARY OR USEFUL TO OVERCOME

DIFFICULTIES IN ASSURING THE SUCCESS OF PROTOTYPICAL OR  
DEMONSTRATION PLANTS FOR THE TREATMENT, PROCESSING OR  
DISPOSAL OF RADIOACTIVE WASTE.

OTHER SPECIFIC FORMS OF COOPERATION MAY BE JOINTLY AGREED  
TO BY THE PARTIES AND APPROVED BY THE JOINT COMMITTEE.

3. IN PRESENTING SCOPE TO JAPANESE, EMBASSY SHOULD STRESS  
OUR HOPE THAT FINAL LANGUAGE WILL INCLUDE SPECIFIC  
REFERENCE TO IEA AS UMBRELLA ORGANIZATION UNDER WHICH  
COOPERATION WOULD TAKE PLACE. INGERSOLL

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**TAGS:** TECH, JA, US, (BARANOWSKI)  
**To:** TOKYO  
**Type:** TE  
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